import tkinter as tk

*# Define the function to reverse the letters of each word in the string*

def reverse\_words(*string*):

*# Split the string into a list of words*

    words = string.split()

*# Loop through each word in the list*

    for i in range(len(words)):

*# Reverse the letters of the word and assign it back to the list*

        words[i] = words[i][::-1]

*# Join the list of words back into a string*

    reversed\_string = " ".join(words)

*# Return the reversed string*

    return reversed\_string

*# Create a tkinter window*

window = tk.Tk()

window.title("PA 01")

*# Create a label for the input prompt*

input\_label = tk.Label(window, *text*="Enter a string:")

input\_label.pack(*side*="top", *anchor*="center")

*# Create an entry box for the input*

input\_entry = tk.Entry(window)

input\_entry.pack(*side*="top", *anchor*="center")

*# Create a label for the output*

output\_label = tk.Label(window, *text*="Reversed string:")

output\_label.pack(*side*="top", *anchor*="center")

*# Create a label to display the reversed string*

result\_label = tk.Label(window, *text*="")

result\_label.pack(*side*="top", *anchor*="center")

*# Define the function to be executed when the button is clicked*

def button\_click():

*# Get the input string from the entry box*

    input\_string = input\_entry.get()

*# Call the reverse\_words function to reverse the string*

    reversed\_string = reverse\_words(input\_string)

*# Update the label to display the reversed string*

    result\_label.config(*text*=reversed\_string)

*# Create a button to execute the function*

button = tk.Button(window, *text*="Reverse Words", *command*=button\_click)

button.pack(*side*="top", *anchor*="center")

*# Set window size*

window.geometry("300x300")

*# Run the tkinter event loop*

window.mainloop()